





The Original Roll-Packer RP 7700 Jumbo

copyright 07.11.2013 images can differ from the original



Bergmann "The Original"









<u>ldea</u>

The Roll-Packer type RP 7700 is an invention of the company Bergmann. In order to work with this machine it is only necessary to place a simply open roll of container of almost any size (minimal safety height: 1900mm) in front of it. After filling the ground the saving of disposal costs can start! The philosophy thereby is, to compact the waste and the recyclable material efficiently where they come up. A heavy, special equipped compaction drum compacts big, bulky waste in an open container to the minimum of its original volume.

<u>Use</u>

The Roll-Packer 7700 is particularly suited for bulky and voluminous waste, such as wooden boxes, pallets, big cardboard, scrap, green waste, etc. **Typical utilization** on recycling depots, in supermarkets, in retailing-/wholesales chains and industrial companies of every branch.

The drive mechanism of the compaction drum takes place through the hydraulic motor inside the drum, which is provided by a hydraulic system. The compaction operations can take place automatically or manually. The system is steered in a way, so that the drum rolls forward and backward in constant change, whereby the waste will be "steamrolled" in layers.

The Roll-Packer can be used on open containers up to a length of 7m. The container will not be damaged by the Roll-Packer.

<u>Safety</u>

The Bergmann-Roll-Packer RP 7700 is **TÜV-GS** certified and corresponds to the European Machinery Directive CE. Moreover, the machine is fitted with an additional security key switch for maintenance and cleaning work. The electrical control system has a safety relais whereby even in the case of a disturbance of the solid PLC-control the emergency Stopp function is always guaranteed.

www.bergmann-online.com











Functional principle

As a member of the Bergmann **Roll-Packer-Family** the RP7700 is constructed for the stationary use at an open container. A heavy, special equipped compaction drum reduces even big, bulky waste in an open container in a short time to the minimum of its original volume.

Easy handling

At first, after the roll-off-container is positioned in front of the RP 7700, the container has to be filled. The container bottom should be covered completely, so that the spikes cannot do harm there.

Compaction in layers

In a second step the machine will be turned on. The drum sinks and starts rolling forward and backward. In the true sense of the word the material will be **"steamrolled"**. Thereby an enormous compaction result will be obtained.

Continuous filling

The container can be filled continuously with material even if the drum is rolling.





safety grids all around shield the danger zone





activated limit switch bar



clear control panel

More than 30 years of experience!

The hydraulical system, the individual gearbox, the strong arm hinges consisting of high-quality materials as well as the electrical steering are based on the experience of more than 30 years. This experience is attributed to the different operating ranges and uses of our customers, which are reflected in all parts of the serial machine. Additionally, the possible additional accessories are based on the **longtime experience!**

Compaction operation

Low-maintenance hydraulical motors inside the compaction drum, which are provided by the hydraulical system, ensue driving and rotation of the drum. The approx. 1,8 t heavy drum obtains an enormous compaction result by means of the **high wear-resistant spikes**. For all kinds of material different drums with different spikes are available.

Environment:

An oil level indicator and a overload protection guarantee a safety operations.

Safety grids

Safety grids prevent entering the danger zone of the machine.

Container attendance switches

Two laterally mounted limit switches prevent the implementing of the RP 7700 without a container. **SAFETY!** Only if a container is present the limit switches release the compaction operations.

Operation

The eays accessible control box, which is mounted externally, is equipped with the controls for time or continuous operations. The compaction intervals are variable adjustable. The engine unit is **easy accessible** for maintenance work. The hydraulic hoses are extra protected with special hoses and a 4mm steel protection plate.

Adjustment of the compaction way -

NEW! without tools!

The adjustment of the compaction way is easy and comfortable and effected by means of the control panel. As a result the adaption of the way for different container lengths is possible with onyl a few handholds. In this way the risk of danger is reduced as well.



Technical data of the Jumbo-Roll-Packer RP 7700

Hydraulic power unit	approx. dimensions (without container)
Driving powerCompaction unit5,5 kW / 1.500 U/minOperating pressureup to 210 barSpeed of the drumapprox. 7 U/minMount of hydr. oil110 litreHydraulic oilHLP acc. to DIN 51 524Viskosityfrom 46 mm²/s at 40°CTemperature range-10°C to +60°COil cooler110 W	Width of the machine 2.800 mm Height of the machine 6.600 mm Length of the machine 4.900 mm Diameter of the drum ca. 1.150 mm Width of the drum ca. 1.800 mm Container heights 1.900 mm - 2.700 mm optional up to 3100 mm Compaction way approx. 7.000 mm, variable adjustable
Gear Amount of gear oil drum gear: 6,0 litre Gear oil CLP acc. to DIN 51 517 Viskosity from 320 mm²/s at 40°C Temperature range -10°C to +60°C	Control voltage 24 V

Subject to technical modifications.

References

Here they know how much the BERGMANN-Roll-Packer economizes!

BASF Münster, (D)	Citroen, (F)
BMW Landshut, (D)	Ford Gent, (B)
Lufthansa Frankfurt, (D)	Tambour LTD Akko, (IL)
METRO Gruppe Düsseldorf, (D)	Leroy Merlin Sevilla, (E)
Daewoo Trucks, (N)	North Berwick Civic Amenity Site, (GB)
Sellbergs Jönköping, (S)	East Midlands Waste Machiners, (GB)
Coca Cola Sverige, (S)	East Renfrewshire Council, (GB)
Bosch Siemens, St. Petersburg (RUS)	Dynamic Waste San Jose, (USA)
Saint Gobain, (F)	Transpacific Superior, (AUS)



Compaction results acc. to customer's indication

type of waste	<u>without</u> Roll-Packer	<u>with</u> Roll-Packer	<u>savings of</u> <u>disposal</u> <u>trips</u>
chipboard	approx. 1,2 t	approx. 5,2 t	76 %
cardboard	approx. 0,9 t	approx. 4 t	75 %
residual waste	approx. 6 containers are necessary	approx. 3 containers are necessary	50 %
timber, pallets	approx. 2,5 t	approx. 8 t	68 %
metal	approx. 5 containers are necessary	approx. 2 containers are necessary	60 %
green waste	approx. 2,5 t	approx. 7 t	64 %

www.bergmann-online.com





Idea & fabrication: Roll-Packer from 1981!



The first "JUMBO" Roll-Packer as of 1986!



The first Roll-Packer Traversing System year of manufacture 19891

Prototype of the patented Mobil Jumbo ® 1999-2000! "left picture"

Today - the RP 7700 with TÜV-GS-seal of approval!

History of the BERGMANN Roll-Packer

For more than 30 years BERGMANN produces the system of the rolling compaction drum in an open container. Idea, conception and development are attributed to the company founder Heinrích Bergmann.

The implementation and the **patent application** (no. 0042580) happened **in the year 1981**. At that time the lifting of the drum had to be done with a hydraulic hand operated pump!

Due to the variety of possible applications (e.g. for domestic waste, cardboard packaging, foils, right up to one-way pallets and bulky waste) the first Roll-Packer "Jumbo" was designed in 1986. Since then its success model was of course extended, TÜV-GS certified and it is part of Bergmann's product range up to the present day.

Due to increased customer wishes for more flexibility the first on rails mounted Roll-Packer "Traversing System" was constructed in the year 1989.

1999/2000 the first prototype of the Mobil Jumbo ® was built and **patented** (no. 1046490).

Up to the present day the family of the Roll-Packer will be improved, further deveoped and above all customer wishes will be followed up.

www.bergmann-online.com



EDV-Code	Description	Scope of delivery
40401361		
	Fixing kit for the ground Delivery of a flexible fixing kit for the fixing of the machine on the ground. The fixing avoids a move- ment of the machine during container change and reduces the transmission of vibrations to the const- ruction. The fixing takes place in front or in the rear on the side bars of the machine. PLEASE NOTE: The ground should be flat and for the fixing concreted.	2 pcs. heavy duty studs 2 pcs. steel discs 4 pcs. rubber washer

40401415	Drum for cardboard (coils + studs)	
	Special drum for the optimized compaction of car- board packaging or similar material.	special drum
	The drum is equipped with 12 coils ans also 12 studs, whereby the last mentioned ones are affixed lengthways to the drum direction.	

40401416	Drum for cans	
	Special drum for the optimized compaction of tinplate cans. The drum is equipped with 12 cross struts.	special drum

40401417	Pyramid drum	
	Special drum for the optimized compaction of extremely stable wooden beams. The drum is equipped with pyramid-shaped steel prongs. Additionally, the drum is suitable for the compacti- on of bulky cardboard because the cross struts impede the skewering of the material	special drum



EDV-Code	Description	Scope of delivery
40401418	Special drum with cleaning device Special equipped drum with cleaning device which avoids that easy spiking material as cardboard will stick on the drum. The width of the drum is approx. 1.800mm. The compaction weight will be increased by ap- prox. 200kg.	special drum cleaning device
40401420	Drum stripping device A robust stripping device avoids that the material that has to be compacted sticks on the drum.	drum stripping device
40401436	Vandalism protected keyboard Control panel vandalism-protected by a lockable robust metal flap, that prevents unauthorized ope- ration of the machine. If the door is closed the emergency stop button is activated which means that the machine can only start with an open door.	metal flap padlock

404018414

Safety light grid



Safety light grid for the additional installation on a ramp or the like. After ensued contact the photoe- lectric cell, which is integrated in the control system of the RP 7700, turns off he machine.	safety light grid holder
	mountings



EDV-Code	Description	Scope of delivery
40401441	Roll-Packer for containerheights up to 3.100 mm: Support frameIf the compaction should take place in containers with heights greater than 2.700 mm, it is possible to adapt the construction accordingly. Thereby the support frame will be increased up to 3.100 mmPlease note:The needed headroom for the operation of the machine is 7.100 mm.	special construction of the ground
40401498	Curved checking mirror The curved checking mirror enables the insight in the container from the ground. Thereby it is possible to make a short safety check and control the filling level of the conainer before starting the ope-	mirror with D = 60cm incl. hinge and pipe clamp

ration, For that a stand will be mounted next to the machine. Thereon the mirror will be mounted in a height of approx. 3.500 mm.

40401421 40401422	Hydraulic oil heating <u>Hydraulic oil heating 1000 W at 400 V:</u> The heating will be placed on the ground of the hydraulic tank and ensures that the temperature of the hydraulic oil amounts to min. 22°C. <u>Hydraulic oil heating 1000 W at 230 V:</u> as stated above, yet min. 17°C	spiral heating with mag- net foot temperature sensor and cable gland glass tube protection
----------------------	---	--

Hydraulic power pack right-hand side

	If one stands on the backside of the RP 7700, the hydraulic power pack and the keyboard will be mounted on the right side.	special design frame
--	--	-------------------------

40401419



EDV-Code	Description	Scope of delivery
50000894	Bio-hydraulic oil As standard an oil lack switch is built-in which turns off the machine when oil leaks out. In areas where the groundwater needs to be protected par- ticularly, it is advisable to use bio-hydraulic oil ne- vertheles.	bio-hydraulic oil
40404250		

40401356	<u>Signal via flashing light</u>	
	Optical signal when e.g. the fullsignal has been released or when too little oil is in the hydraulic tank. The signal persists as long as the input signal will be interrupted by power interruption respectively by pushing the emergency stop button. Signal actuators such as the full signal are not inc- luded in this set.	flashing light various electrical com- ponents

40401411	Additional remote control with 5m cable	
	In addition to the standard control panel on the machine, a remote control inc. 5m cable and a me-	control panel
	tal protection case will be delivered. This control panel is tapped directly in the control	robust metal protective housing
	cabinet. The machine can be operated via both control pa- nels.	5m cable incl. protective hose
		electrical components

40401412	After the programmed compaction time is over the drum lifts automatically and the machine turns itseld off. By means of a pendulum it is ensured that the drum can only be lifted in vertical position.	time relay electrical components
----------	---	-------------------------------------



EDV-Code	Description	Scope of delivery
40401439	Additional emergency stop button A second emergency stop button will be mounted on the opposite side of the hydraulic aggregate on the safety guards of the machine. By means of this additional security measure a more quickly intervention of a third in dangerous situations is possible.	emergency stop button incl. housing
40401519	Shut off by limit switch Limit switch for stopping the machine after the compaction drum has been lifted out of the contai- ner. The limit switch is is mounted on a cam disk on the joint of the stem. If the cranked arm pushes against the limit switch, the machine turns itself off. By means of this control system the lifting height can be limited.	limit switch with cam disk various electrical com- ponents
40404704		

40401781	Potential-free contact	
	Electrical extension for transferring a state from or to the machine, e.g. starting the Roll-Packer due to the signal on an external control "conveyer has started".	potential-free contact

40401784	Prearrangement for remote control A 16-pin plug will be mounted externally on the aggregate. The exact position can be determined by the customer. All advice and functions of the installed control pa- nel will be transferred parallel to the plug.	1 pc. 16-pin plug various electrical com- ponents
----------	---	---



EDV-Code	Description	Scope of delivery
40401836	75 % full signal via limit switch	
	Through an electrical signal, which will be caused by a limit switch, a lamp on the control cabinet flas- hes. This signalled that the container is at 75% full.	limit switch with cam disk and circular for- ming plate beacon
	PLEASE NOTE: On request the full signal can be adjustable for other filling levels as well. For signaling of the full signal a beacon or a siren can be switched additionally. Optional a potential-free contact can be assigned to the full signal as well, on which external devices can be connected.	various electrical com- ponents
40401847	<u>100 % full signal via limit switch</u>	
	Through an electrical signal, which will be caused by a limit switch, a lamp on the control cabinet flas- hes. This signalled that the container is at 100% full.	limit switch with cam disk and circular for- ming plate beacon
	PLEASE NOTE: On request the full signal can be adjustable for other filling levels as well. For signaling of the full signal a bea- con or a siren can be switched additionally. Optional a potential-free contact can be assigned to the full signal as well, on which external devices can be con- nected.	various electrical components



EDV-Code	Description	Scope of delivery
40401425	Automatic lubrication system PERMA Greasing dispenser for the automatic regularly greasing of the cranked and pendulum arm bea- rings.	4 pcs. PERMA - greasing dispenser 4 pcs. Protective hou- sing
40401444	Central lubrication system With this electrical driven central lubrication system all the six greasing points of the machine will be greased automatically. This system is connected to the electrical control system of the Roll-Packer and can be programmed freely.	programmable lubricant pump mounting for pump lubricant conductions grease nipple fittings

40401497	Manual single-point lubrication system	
	This equipment facilitates the lubrication of the bearing between the cranked and the pendulum arm becaue otherwise this point is difficult to ac- cess. Two lubricant conductions will be mounted on the greasing point and conducted up to the stem. From there the greasing via a lubrication gun can take place.	lubricant conductions grease nipple mounting for central lubrication point fittings



BERGMANN

Machines for Waste Management

Von-Arenberg-Straße 7 49762 Lathen Tel. +49 5933 955-0 Fax. +49 5933 955-294 info@bergmann-online.com

www.bergmann-online.com

copyright 07.11.2013 images can differ from the original